



CD-ROM Drive Operation Manual

PX-43CH Internal CD-ROM Drive
PX-45CH External CD-ROM Drive

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications should be approved by the party responsible for compliance of FCC Rules; otherwise, the user loses authority to operate the equipment.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The laser beam emitted from the optical pickup is invisible. Accordingly:

- **Do not open the optical pickup housing.**
- **Obtain service only from Plextor-authorized personnel.**

CAUTION

To disconnect the CD-ROM drive from an electrical current, pull out the power plug.

VORSICHT

DIE TRENNUNG VOM NETZ ERFOLGT DURCH ZIEHEN DES NETZSECKES.

Zur Einhaltung der Funk-Entstörung von nicht selbständig betreibbaren Hochfrequenzgeräten (periphere Anlagenkomponenten).

Dieses Gerät entspricht als Einzelgerät den Funk-Entstöranforderungen der Postverfügung Nr. 243/1991. Wird das Gerät innerhalb einer Anlage zusammen mit anderen Geräten betrieben. So muß bei Inanspruchnahme der "Allgemeinen (Betriebs-) genehmigung" nach der BMPT-AmtsblVfg Nr. 243/1991 die gesamte Anlage folgenden Richtlinien entsprechen:

- Grenzwertklases B der EN55022
- Auflagen nach § 2 der BMPT-AmtsblVfg 243/1991

Dies ist bei der Zusammensetzung einer Anlage (z.B. Computersystem) aus nur einzeln geprüften Geräten nicht immer erfüllt.



ÜG-Vfg.243

CD-ROM DRIVE

PX-43CH Internal
PX-45CH External



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Introduction

Thank you for purchasing a Plextor 4PleX CD-ROM drive. We appreciate the confidence you have shown in our ability to put you — and keep you — on the leading edge of CD-ROM drive performance.

To get you there, we first have to help you install your 4PleX drive properly, and operate it correctly. After that, the responsibility is yours; to seek the applications that make a CD-ROM drive such a powerful and exciting addition to your system.

For those of you with PCs, the installation process may seem a bit complicated (Mac people have it easy). Fear not. We have successfully walked through the installation process with many customers who previously had lived in mortal terror of the innards of their computer.

In this manual you should find all the information you need to successfully install and operate your drive. However, if you run into a problem CALL US (see Chapter 14 for the different ways you can contact us). The call is toll-free. You will be connected to our friendly, helpful band of tech support reps who know their stuff about CD-ROM drives. What might seem like a lost cause to you could very well be a 30 second fix to them. But we will never know unless you CALL US. If you are having trouble, please don't give up and don't take your drive back to where you bought it until you have spoken with one of our tech support reps.

This manual is designed to be followed in sequence. It is aimed primarily at those who will connect their 4PleX drive to a PC. Mac users should look for this symbol:



Users of UNIX based systems should look for this symbol:



as an indicator of sections of the manual that pertain to them.

Many of you reading this manual are experienced computer users who have successfully installed peripherals in the past. There probably are a number of sections in this manual that you can skip over. However, we ask everyone — from novice computer users to experienced computer professionals — to read the sections marked with this symbol:





Box Contents

YOUR TASK: Check the contents of the box.

YOUR OBJECTIVE: Make sure you got everything you paid for.

YOUR METHOD: Compare what you find in the box with the tables on the following pages.

What you should find in your Plextor box depends on two factors: 1) what configuration you purchased; and, 2) what the company that sold you the box put in — or took out — while it was in their possession.

Plextor currently sells its 4PleX drives in four configurations:

- 1) Drive Only
- 2) Drive with 16-bit SCSI Interface Board Kit
- 3) Drive with 16-bit Soundboard Kit
- 4) Drive with Mac Kit

The configuration you received is indicated by stickers applied to your box.

**PLEASE
NOTE:**

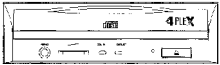
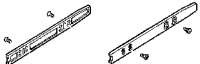

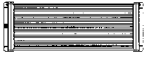



A security sticker was applied to the top of your box. The contents of your box were carefully checked before this sticker was applied. If it was cut before you purchased the box, you should carefully check the contents to ensure nothing has been removed. If something is missing, you should contact the party from whom you purchased the box for an explanation.

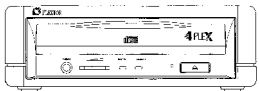


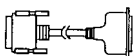
There may be a perfectly good reason why the security sticker on the box was cut before you received it. For example, a dealer may have purchased a "Drive Only" configuration from Plextor, then added a SCSI interface board and/or software he had purchased separately before selling the box to you.

Use the following tables to check the contents of your box:

PX-43CH Internal Drives

| | DRIVE ONLY | DRIVE w/ 16-bit SCSI Interface | DRIVE w/ Soundboard |
|--|------------|-----------------------------------|------------------------|
| CD-ROM drive  | X | X | X |
| Side rails with 4 chrome and 4 black screws  | X | X | X |
| Caddy  | X | X | X |
| 16-bit SCSI interface board with device drivers on floppy disk & board manual | | X | |
| Audio cable | | | X |
| SCSI cable  | | X | X |
| Soundboard with device drivers on floppy disk & soundboard manual | | | X |
| Plexor operation manual | X | X | X |
| Warranty registration card | X | X | X |
| Extra jumpers for setting drive switches  | X | X | X |

PX-45CH External Drives

| | DRIVE ONLY | DRIVE w/ 16-bit SCSI Interface | DRIVE w/ Sound-board | DRIVE w/ Mac Kit |
|---|------------|--------------------------------|----------------------|------------------|
| CD-ROM drive  | X | X | X | X |
| Caddy  | X | X | X | X |
| Terminator  | X | X | X | X |
| Bracket Connector | | | X | |
| 16-bit SCSI interface board with device drivers on floppy disk & board manual | | X | | |
| Audio Cable | | | X | |
| SCSI cable  | | X | X (2) | X |
| Sound board with device drivers on floppy disk & soundboard manual | | | X | |
| Plexor operation manual | X | X | X | X |
| Warranty registration card | X | X | X | X |
| Mac device drivers manual & disk | | | | X |



A Gentle Reminder. . .

-
- YOUR TASK:** Save your box (if you received one).
- YOUR OBJECTIVE:** Have a secure container in which to ship your drive back to Plextor, if necessary.
- YOUR METHOD:** Find an empty space in your home/office, fill it with the Plextor box.
-

If you received your 4PleX CD-ROM drive in a Plextor box, you should save the box after you have installed your drive. There are many sets of hands — some of them potentially unfriendly — that a 4PleX drive might go through on its way from us to you. Our box and its packaging material were designed and drop tested to ensure that your 4PleX drive can endure rough treatment and still arrive in working order.



We advise you to hold onto your box in case you should ever need to return your drive to Plextor for any reason. Unfortunately, some of our customers have not held onto their boxes, and have had to resort to some less-than-secure methods to get drives back to us. We have received drives in a shoebox, in an unpadded express mail envelope, and in a box filled with buttered popcorn.

We cannot assume liability for any damage your drive sustains during shipment. Therefore, please ship your drive in the safest manner possible. We believe your drive will be most secure if it is shipped in a Plextor box. We hope you will never have to ship your drive back to us. If you do, however, we hope you will send it packaged in a Plextor box.

If you did not receive a Plextor box (if, for example, your drive came pre-installed in a computer), we recommend that you pay a packaging store (e.g., Mailboxes, etc.) in your area to ship your drive. The drives that we have received from most packaging stores have arrived in good shape. If you don't have a packaging store in your area, call our tech support department for packaging pointers before you ship your drive. In fact, you should call our Technical Support Department to get an RMA number before returning any drive (see Chapter 14, p. 65).



What Else Do I Need?

YOUR TASK: Review the software and hardware installed in your current computer system.

YOUR OBJECTIVE: Determine what else you may need to operate your CD-ROM drive.

YOUR METHOD: Inventory your current computer system; check list below.



If you are a PC owner and you purchased a Plextor box labeled "Drive with 16-bit SCSI Interface Kit" or "Drive with 16-bit Soundboard Kit" your needs are simple: none. The same holds true if you are a Mac owner and purchased a Plextor box labeled "Drive with Mac Kit." Everything you need to successfully install and operate your 4PleX CD-ROM drive is included in the box you purchased. The only thing you need to add is a CD-ROM disc to play in your new drive.

If you are a PC owner who has purchased a 4PleX "Drive Only" box, life gets a bit more complicated. You fall into one of three groups:

1) You do not own a SCSI interface board.

In which case, you have to get one. Your local computer store and numerous mail-order vendors carry them. Call us if you need suggestions on which model to buy. You also will need to buy a SCSI ribbon cable to connect the board to an internal drive, or an external SCSI cable to connect the board to an external drive.

2) You own a SCSI interface board.

If you already have other SCSI peripherals (e.g., hard disk, scanner, tape drive) connected to the board, you will need a daisy chain cable that can connect one board to multiple SCSI peripherals. If you have a SCSI interface board, but the CD-ROM drive is the only SCSI peripheral you will connect to it, you can use cables such as those mentioned in #1 above.

If you purchased your SCSI interface board several months or years before you purchased your 4PleX drive, you may need to update your device drivers. See the discussion about device drivers in Chapter 9 of this manual.

3) You own a soundboard that has a SCSI interface built into it (e.g., Sound Blaster SCSI II).

You may need to add a SCSI cable and, most important, an audio cable (see page 33 for a discussion on audio cables). If you have an external drive you

will need two SCSI cables (internal and external), an audio cable, and a special bracket that plugs into the back of your computer. The bracket acts as the point where cables inside your computer connect to cables outside your computer (and onto your CD-ROM drive).

You also may need to update your device drivers. See the discussion about device drivers in Chapter 9 of this manual.

Once you have assembled everything you need, you're ready to install your drive. But first, a few words of caution are in order.



Precautions

YOUR TASK: Read the list of precautions below.



YOUR OBJECTIVE: Avoid any undo harm coming to you or your drive.

YOUR METHOD: Review the list and use common sense.

Your new CD-ROM drive is a precision electromechanical device. Like the rest of your computer system, it requires reasonable care in its installation and use.

Please read this manual carefully and keep it handy for easy reference. Use this manual for installation, operation, and troubleshooting. See your dealer or call Plextor's Technical Support Department should your drive require repair or service.

- ✗ Do not put your computer monitor (or any other device weighing more than 30 lbs.) on top of the PX-45CH external drive.
- ✗ Do not place either the PX-43CH or PX-45CH drive in direct sunlight, on heating units, or near electrical appliances which draw large amounts of current, such as a high-powered audio amplifier, microwave oven, toaster, hair dryer, etc.
- ✓ Keep the area around your drive clean from dust, smoke, and other contaminants.
- ✓ Use a soft, dust-free cloth for cleaning your drive. Do not allow moisture or liquids including water, cleaning fluids, or solvents to touch the drive. Thinner, benzene, or alcohol-based solvents can mar your drive's surface.
- ✓ To help ensure that your CD-ROM discs remain free of dirt or other contaminants, your drive requires a disc caddy. Use only an industry standard disc caddy. Do not insert a warped or cracked disc caddy into the drive.
- ✓ Keep your CD-ROM disc clean. See Chapter 11 for tips on handling and cleaning CD-ROM discs.
- ✗ Do not drop or jolt the drive.
- ✗ Do not attempt to open the drive and service it yourself. Removing the cover may expose you to harmful electrical voltages or the laser beam. For your safety, entrust service to Plextor-authorized service personnel only.

Only CD-ROM discs carrying this label may be used with this drive:





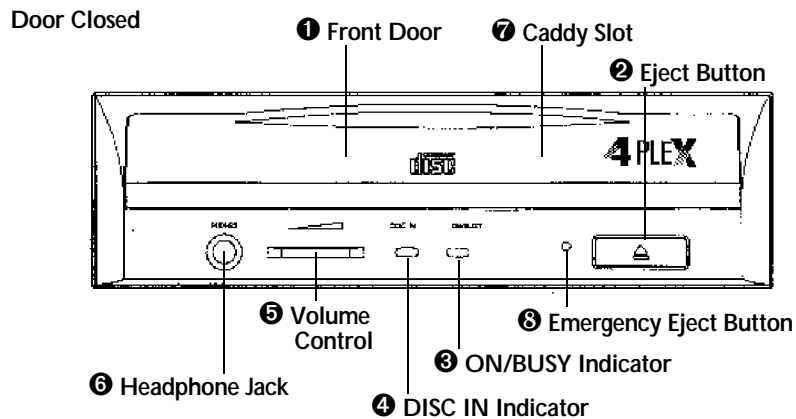
Drive Features

YOUR TASK: Get to know your drive.

YOUR OBJECTIVE: Learn how to operate different features of the drive. Learn what goes where. Learn some terms that will be used elsewhere in the manual.

YOUR METHOD: Match the different parts of your drive to the diagrams below.

PX-43CH Internal Drive Front Panel



1 Front Door: Open to insert caddy.

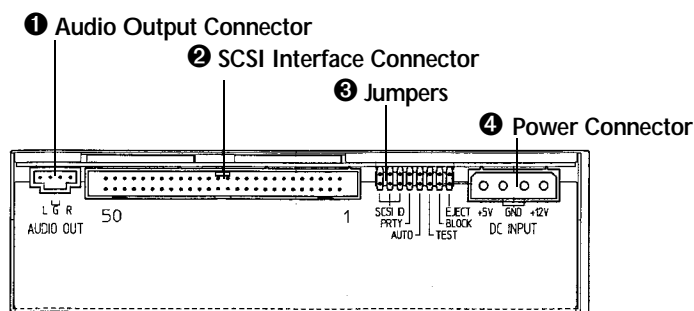
2 Eject Button: Push to eject caddy.

3 ON/BUSY Indicator: Yellow when power is on. Flashing when disc is inserted and being accessed. Off when disc is inserted and not being accessed.

4 DISC IN Indicator: Green when power is on and disc is inserted. Off if no disc is inserted.

- ⑤ **Volume Control:** Controls volume of headphone jack. This control has no effect on the rear panel audio outputs.
- ⑥ **Headphone Jack:** Stereo mini-jack for headphones and powered speakers.
- ⑦ **Caddy Slot:** Insert caddy after opening door.
- ⑧ **Emergency Eject Hole:** Insert paper clip or other thin, rigid object to eject caddy if automatic eject button ② does not work. Turn off power before using this feature.

PX-43CH Internal Drive Rear Panel



- ① **Audio Output Connector:** Outputs stereo analog signal. Use to connect to sound board or audio amplifier.
- ② **SCSI Interface Connector:** Connects to SCSI interface board using 50-pin to 50-pin flat ribbon SCSI cable.
- ③ **Jumpers:** Use to select SCSI ID number, parity, auto, test, block size and eject lock options. Leave these jumpers at their factory settings unless one or more of the following situations pertain to you:

SCSI ID number: If you are using more than one SCSI peripheral, you may have to change your SCSI ID number. See page 15.



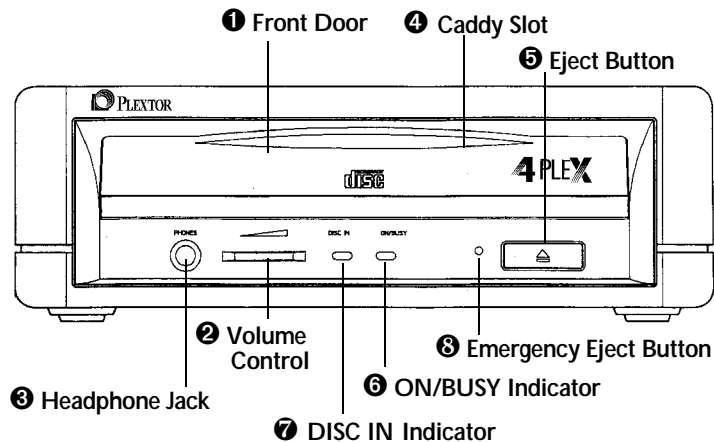
Block size: If you are working in a UNIX environment and want to boot from your CD-ROM drive, see page 17.

Eject lock: If you work in an environment where you need to prevent others from easily removing a CD-ROM disc from your drive, see page 17.

- ④ **Power Connector:** Connects to your computer's power supply (DC +5V and +12V).

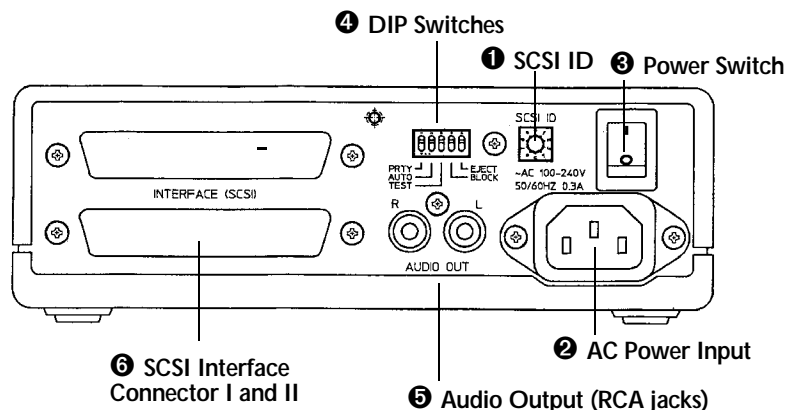
PX-45CH External Drive Front Panel

Door Closed



- 1 Front Door:** Open to insert caddy.
- 2 Volume Control:** Controls volume of headphone jack. This control has no effect on the rear-panel audio outputs.
- 3 Headphone Jack:** Stereo mini-jack for headphones and powered speakers.
- 4 Caddy Slot:** Insert caddy after opening door.
- 5 Eject Button:** Push to eject caddy.
- 6 ON/BUSY Indicator:** Yellow when power is turned on. Flashing when disc is inserted and being accessed. Off when disc is inserted and not being accessed.
- 7 DISC IN Indicator:** Green when power is on and disc is inserted. Off if no disc is inserted.
- 8 Emergency Eject Hole:** Insert paper clip or other thin, rigid object to eject caddy if automatic eject button **5** does not work. Turn off power before using this feature.

PX-45CH External Drive Rear Panel



1 SCSI ID: Use this dial to designate SCSI ID number. Rotate the dial to change the number.

2 AC Power Input: Use the power cord supplied with your drive.

3 Power Switch: To turn power ON/OFF.

4 DIP Switches: Use to set parity, auto, test, block size and eject lock options. Leave these switches at their factory settings unless either or both of the following situations pertains to you:



Block size: If you are working in a UNIX environment and want to boot from your CD-ROM drive, see page 17.

Eject Lock: If you work in an environment where you need to prevent others from removing a CD-ROM disc from your drive, see page 17.

5 Audio Output: Outputs stereo analog signal via RCA jacks. Use to connect to audio amplifier or other audio equipment.

6 SCSI Interface Connector I and II: One connector should be used to link your CD-ROM drive to your SCSI host adapter; the other to link your CD-ROM drive to another SCSI peripheral with a daisy chain cable (see page 31). You may use either connector for either purpose.



Drive Switch/ Jumper/Dial Settings

YOUR TASK: Find the location of jumpers (internal drive) or switches and rotary dial (external drive). Check their settings. Change them, if necessary.

YOUR OBJECTIVE: To ensure that your new CD-ROM drive can coexist peacefully with other equipment you might have installed in your computer. To ensure that your drive will work properly after it is installed.

YOUR METHOD: Find locations of jumpers/switches/rotary dial on diagram in Chapter 5. Read below to determine if your drive's settings need to be changed. If so, follow the directions on making the necessary changes.

Your 4PleX CD-ROM drive needs to be flexible enough to work with the variety of computer systems (PC, Mac, Sun, Silicon Graphics, DEC, etc.) that can use SCSI peripherals. To provide this flexibility, Plextor gives its customers options on how a drive can be set before it is installed. On an internal drive, settings are determined by the position of jumpers on the jumper block at the rear of the drive. On an external drive, settings are determined by the position of dip switches and the rotary dial on the rear panel of the drive.

Fortunately, we have a pretty good idea of the environment in which most of our drives will be used (a single SCSI device connected to a PC or Mac). Your drive ships from our factory with its jumpers/switches/dial set to work in this environment.

You should leave the jumpers found on the rear panel of the PX-43CH and the switches and rotary dial found on the rear panel of the PX-45CH at their factory settings unless: 1) you plan to use another SCSI peripheral (e.g., hard disk, scanner) with your computer system in addition to your CD-ROM drive; 2) you work in a UNIX environment and want to boot from your CD-ROM drive; 3) you want to utilize the Eject Lock feature. If you plan to use additional SCSI peripherals, you may need to change the jumper/switch/dial settings of the PX-43CH / 45CH. This section will describe how to make these changes. For information on #2 and #3, see page 17.

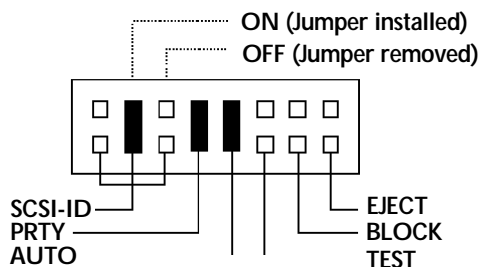


If the CD-ROM drive is the only SCSI peripheral you will use with your computer, you do not need to boot from the CD-ROM drive in a UNIX environment. If you do not plan to use the Eject Lock feature, skip now to Chapter 8, Hardware Installation. (Take our word for it, most of you can now skip to Chapter 8.)

PX-43CH Internal Drive

Factory Setting of Jumper Block

The functions shown are ON if the jumpers are installed and OFF if jumpers are removed. The jumpers are set by the factory as follows:



Installing and Removing Jumpers

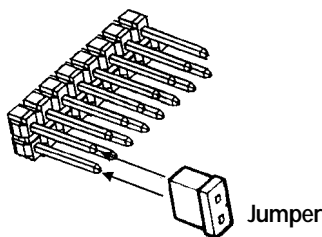
Ensure power to the drive is OFF before installing or removing jumpers.

Identify the appropriate pin number by looking for the pin labeled 1 on the green circuit board. The pins to the right of it are 2, 3, 4, 5, 6, 7 and 8 respectively.

To remove a jumper, pull it off with your fingers or a pair of needle-nose pliers.

To add a jumper, push it onto the jumper pins. Three extra jumpers are supplied with the PX-43CH in addition to the three jumpers already installed at the factory.

Caution: Install jumpers **across** each pin as shown. Do **not** connect one pin switch to another by installing the jumpers lengthwise. Doing so could result in damage to the drive.



Install Jumpers This Way



Do **NOT** Install Jumpers This Way

SCSI ID Number

It is possible to chain (using a daisy chain cable) up to seven SCSI peripherals to a single SCSI interface board, or to the SCSI port of an Apple computer. However, when using multiple SCSI peripherals, it is necessary to set each peripheral to a unique SCSI ID number.

Your Plextor CD-ROM drive can be set to use one of eight SCSI ID numbers. The drive should arrive with its SCSI ID set to 2. Accordingly, if you already use another SCSI peripheral and its SCSI ID also is set to 2, you must change the SCSI ID number of either this peripheral or the CD-ROM drive.

Changing the SCSI ID: PX-43CH

The SCSI ID number of the PX-43CH is determined by the placement of jumpers on pins 1, 2 and 3. To change the SCSI ID number, follow the chart below.

| SCSI ID Number | Jumper Installed Across | | |
|---------------------------|-------------------------|-------|-------|
| | Pin 1 | Pin 2 | Pin 3 |
| 0 | No | No | No |
| 1 | YES | No | No |
| Factory Settings 2 | No | YES | No |
| 3 | YES | YES | No |
| 4 | No | No | YES |
| 5 | YES | No | YES |
| 6 | No | YES | YES |
| 7 | YES | YES | YES |

For example, the factory setting of the SCSI ID at 2 is made by installing a jumper across pin 2 of the jumper block, leaving pins 1 and 3 uncovered. To set the SCSI ID at 7 you would install a jumper across pin 1, another jumper across pin 2, and a third jumper across pin 3. To set the SCSI ID at 5, you would install a jumper across pin 1 and a jumper across pin 3, leaving pin 2 uncovered.

PX-45CH External Drive

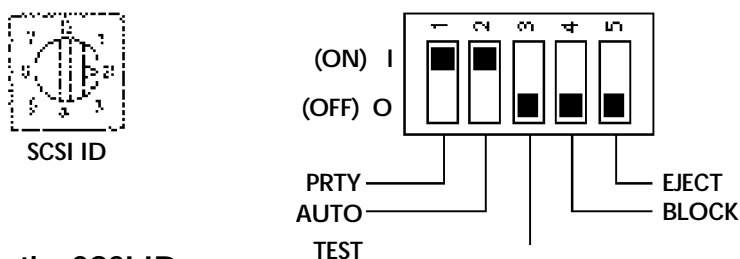
SCSI ID Number

Please see description on page 15. It is also applicable to the external drive.

Factory Setting of Dial and DIP Switches

Caution: Turn the drive's power OFF before changing the setting of the dial or DIP switches.

The SCSI ID number of the PX-45CH is determined by the position of the pointer on the SCSI ID rotary dial. The drive should arrive with its SCSI ID set to 2. The rotary dial and DIP switches are set by the factory as shown below:



Changing the SCSI ID

Using the blade of a screwdriver, rotate the dial's arrow to a different SCSI ID number.

Changing DIP Switch Settings

Use a screwdriver, pen or paper clip to push the DIP switches to an OFF or ON setting.

Other Switch Settings—PX-43CH/PX-45CH

The remaining switches are:

Parity Leave this ON. The parity check provided by the ON setting enhances the reliability of the SCSI bus with little or no noticeable affect on performance.

Auto Leave this ON unless you are having trouble reading a defective or damaged CD-ROM disc.

Normally, the data transfer rate for the drive is 600KB/sec from the data section of the disc and 150KB/sec from the audio section. However, your drive is designed to sense if it is reading a defective, damaged or poorly manufactured disc and adjust the data transfer rate accordingly.

With the AUTO switch ON, the drive first will attempt to read a disc at quad speed (600KB/sec). If it is unsuccessful, the drive automatically will switch to double speed (300KB/sec) and once again attempt to read the disc. If successful, the drive will continue at double speed until it receives the next read command. At this point, it will attempt to resume quad speed operation.

If your drive is unsuccessful in reading a disc at quad or double speed, it will slow to single speed (150KB/sec) and try a final time to read the disc. If successful, the drive will continue at single speed until it receives the next read command. At this point, it will attempt to resume quad speed operation. If it is unsuccessful in its attempt to read a disc at single speed, you will receive an error message.

You may override this feature and set your drive to operate only at single speed (150KB/sec) by setting the AUTO switch/jumper OFF. At this setting, the drive will transfer both data and audio at 150KB/sec.

We recommend that you set this switch/jumper OFF only under extreme circumstances (e.g., you have a badly damaged disc that you MUST get data from).

Test Leave this OFF. It is for factory use only.

Block Leave this OFF unless you are working in an UNIX environment and want to boot from your CD-ROM drive. If so, set this switch/jumper ON.



Eject In most situations, you will want to leave this switch/jumper OFF.

However, if you are in an environment where you want to prevent others from borrowing or stealing the disc inserted in your drive (e.g., the drive is located in a public place where multiple people have unlimited access), you can activate the Eject Lock feature. To do so, set this switch/jumper ON.

When this switch/jumper is ON, it is impossible to eject a disc inserted in the drive by pressing the Eject button. A software eject command must be issued for the disc to eject from the drive. Check your device driver manual for instructions on how to issue a software eject command.



Termination

YOUR TASK: Find the location of the terminator(s) on your drive.

YOUR OBJECTIVE: Determine if your drive must use a terminator(s).

YOUR METHOD: Find location of terminator(s) by checking diagrams in Chapter 5. If necessary, remove them by following instructions given below.

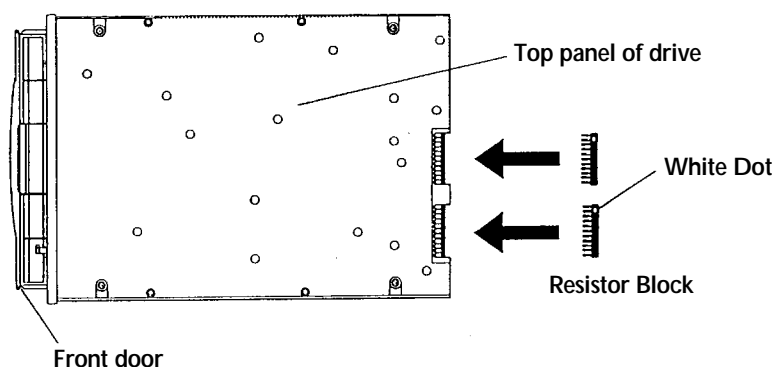
You must use a terminator if the PX-43CH or PX-45CH is the only SCSI peripheral used with your computer. In addition you must use a terminator if you are using multiple SCSI peripherals with your computer, and the PX-43CH or PX-45CH is positioned as the last peripheral in a daisy chain.

Any SCSI peripherals which are positioned between your SCSI host adapter and the last peripheral in a daisy chain should have their terminators turned OFF. Consult the manuals of these peripherals for the proper method of turning their terminators OFF.

Remember: Only the last SCSI peripheral in a daisy chain should have its terminator turned ON. If you have any SCSI devices chained after your PX-43CH or PX-45CH, you must turn OFF the PX-43CH's or PX-45CH's termination.

PX-43CH Termination

The PX-43CH is shipped from the factory with its termination turned ON. To turn termination OFF remove the black resistor blocks from the locations shown below:



If your drive already is installed in your computer, be sure to turn off your computer power before removing (or reinstalling) the terminators. We recommend that you use needle nose pliers to remove the resistor blocks in order to avoid bending their legs. We also recommend that you retain the resistor blocks so you can reinsert them into the drive if you later need to turn the drive's termination ON. If you reinsert the resistor blocks, make sure that the side of the resistor block with a small white dot is facing UP.

PX-45CH Termination

The PX-45CH is shipped from the factory with a terminator installed on one of its SCSI connectors on the rear panel of the drive. When this terminator is installed, the drive's termination is turned ON.

To turn the termination OFF, first turn off the drive's power, then pull the terminator off the SCSI connector. We recommend that you retain the terminator so that it can be reinstalled if you later need to turn the drive's termination ON.